

## Title (en)

IRON-BASE SINTERED SLIDING MEMBER AND ITS METHOD FOR PRODUCING

## Title (de)

EISENBASIERTES GESINTERTES GLEITELEMENT UND DESSEN HERSTELLUNG

## Title (fr)

ÉLÉMENT COULISSANT FRITTÉ À BASE DE FER ET SON PROCÉDÉ DE FABRICATION

## Publication

**EP 2781283 A1 20140924 (EN)**

## Application

**EP 14160621 A 20140319**

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## Abstract (en)

An iron-based sintered sliding member is provided in which solid lubricating agent is dispersed uniformly inside of powder particles in addition to inside of pores and particle interfaces of the powder, the agent is strongly fixed, and sliding properties and mechanical strength are superior. The iron-based sintered sliding member contains S: 3.24 to 8.10 mass%, remainder: Fe and inevitable impurities, as an overall composition; the metallic structure includes a ferrite base in which sulfide particles are dispersed, and pores; and the sulfide particles are dispersed at a ratio of 15 to 30 vol% versus the base.

## IPC 8 full level

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## Citation (applicant)

- JP H04157140 A 19920529 - HITACHI POWDERED METALS
- JP 2006052468 A 20060223 - HITACHI POWDERED METALS
- JP 2009155696 A 20090716 - HITACHI POWDERED METALS

## Citation (search report)

- [XAY] JP 2002332552 A 20021122 - HITACHI POWDERED METALS
- [XA] WO 9825720 A1 19980618 - HOEGANAES AB [SE], et al
- [XA] WO 0000656 A1 20000106 - APPLIC METALES SINTER [ES], et al
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- [XAI] US 4233071 A 19801111 - BIERLEIN JOHN C, et al
- [XA] DE 907419 C 19540325 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH
- [YA] JP 2000282166 A 20001010 - MITSUBISHI MATERIALS CORP
- [XPA] GB 2495209 A 20130403 - HITACHI POWDERED METALS [JP]

## Designated contracting state (EPC)

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## Designated extension state (EPC)

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## DOCDB simple family (application)

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